



DEPARTMENT OF THE ARMY
California Army National Guard
HEADQUARTERS, CAMP ROBERTS
CAMP ROBERTS, CALIFORNIA 93451-5000

CACR-DPTMS

13 March 2006

SUBJECT: Engagement Skills Trainer 2000 (EST 2000) Standing Operating Procedures (SOP)

SECTION I

- 1-1 **PURPOSE:** To establish policies and procedures for operations, utilization, and control of the EST 2000.
- 1-2 **SCOPE:** This SOP applies to all activities, units and agencies authorized to obtain support from the Camp Roberts MTC.
- 1-3 **PROVISIONS FOR CHANGE:** This SOP will be reviewed at least annually by EST 2000 Staff for updates.

SECTION II

2-1 **GENERAL:** The EST 2000 is temporarily located in BLDG 120, Camp Roberts, CA. All units must submit their scheduling request utilizing the automated Range and Facility Management Support System (RFMSS). The EST 2000 is a Unit Simulation Facility, which operates under the auspices of the Camp Roberts DPTMS.

The EST 2000 is designed for use as a unit and instructional trainer. The indoor, multipurpose, multilane EST 2000 design provides for individual small arms, crew served, and individual antitank training. The system is comprised of multiple independent subsystems that can be networked and configured in any of the three operational modes (practice types) including Marksmanship, Unit Collective Squad Level and Shoot/Don't Shoot. Each EST 2000 system is one computer which controls 5 lanes. Two systems comprises a suite which is 10-15 lanes. Currently there is one suite with 10 lanes available at Camp Roberts. When using multiple systems configurations for training, the graphics systems produces a seamless image on the wide viewing area with the targets moving freely and without distortion as they cross from one screen to another. Currently the weapons inventory is as follows: 2-M203/M16A2, 3-M4, 5-M16A2, 2-M240B, 2-M249 (SAW), 2-MK-19 (minus tripod), 2-M9, 1-AT4.

The EST 2000 enhances training by adding realism to the scenario with the use of:

1. Sight – Displays targets, terrain, and weapons effects in real-time, 3-dimensional presentation.
2. Sound – Soldier hears their weapon and “OPFOR” weapons and vehicles.
3. Sensation – Soldier experiences the actual weapon’s weight and recoil.

Each EST 2000 subsystem consists of an Instructor Operator Station (IOS), modified weapons, floor boxes, high-resolution projection camera assembly, speakers, air compressor, screen, and associated cabling and hoses. Weapon modifications include an eye-safe laser, sensors to measure trigger pressure, cant and ammunition magazine/belt status (as well as status of on/off or selector switches), and a compressed air operating system.

The EST 2000 has 227 Marksmanship scenarios beginning with zeroing, and continuing through record fire courses. More than 250 tactical scenarios will be provided against varying enemy targets, in terrain varying from woodland to desert and mountains that are typical of terrain found throughout the world. Approximately 40 Shoot/Don’t Shoot scenarios: 16 Military Police and 24 Infantry will be provided for training soldiers. There are 11 distinct weapons to train with: M16A2 Assault-Rifle, M203 Grenade Launcher, M4 Carbine, M249 Squad automatic Weapon (SAW), M240B 7.62 MG, M2 .50 Caliber MG, M60 7.62mm Machine-gun, MK19 Grenade Launcher, M136 Antitank Weapons (AT4), M9 Pistol, and the M1200 12 Gauge Shotgun.

2-2 MISSION: The mission of the EST 2000 is to provide a means of training and evaluating the performance of soldiers under simulated combat conditions on the following weapons: AT-4, M9 Pistol, M16A2 Rifle, M203 Grenade Launcher, M4 Carbine, MK19 Grenade Launcher, M2 .50 Cal. Machine Gun and a M249 SAW and M240B Machine Gun. The EST 2000 will be used for individual qualification for NBC and night fire IAW with DA Pam 350-38 (STRAC Manual).

SECTION III

3-1 RESPONSIBILITIES:

- A. Camp Roberts DPTMS is responsible for the supervision of the EST 2000.
- B. The EST 2000 facility is staffed by one Camp Roberts employee who is responsible for the overall operation of the EST 2000 Facility, which includes: training unit trainers, safety, accountability, instructing, planning, supervision, administration, and evaluating. The Camp Roberts employee is responsible for the maintenance and accountability of all facility equipment and simulation devices to include the upkeep of the EST 2000 building (120), and daily physical security measures including accountability of all weapons. An “In Brief” will be

conducted daily on topics that include safety, break areas, smoking areas, equipment use, professional conduct, clean-up procedures, and basic “Do’s and Don’ts”.

- C. Unit Commanders or assigned personnel will put together a by name roster of everyone firing on the EST 2000. The roster will consist of last name, first name, middle initial, rank, and last 4 of their social. This will be e-mailed to SGT Rider at Michael.Rider1@us.army.mil no later than one week before the use of the EST 2000.
- D. Using unit will provide one trainer per five firing lanes. Trainers will be available for a 2 hour block of instruction within 48 hours of unit training. Trainers will be used to assist in coaching, monitoring, and conducting safety and instructional briefs.

SECTION IV

4-1 POLICIES:

- A. Prior to training on the EST 2000, all units must conduct PMI and train on the LMTS system.
- B. Unit Commanders or their designated representative(s) must ensure their personnel possess an accurate and serviceable ID card in order to enter the EST 2000 facility.
- C. All units requesting the EST 2000 will supply 1 OIC and NCOIC as well as at least 2 safety personnel. OIC will be E7 or above & NCOIC will be E5 or above. The units training NCO/officer will be present to verify qualification scorecards.
- D. OIC or NCOIC will sign for the EST 2000 at Range Control each day prior to training. At the end of each day the OIC or the NCOIC will complete the Range Utilization form and turn-in at Range Control.
- E. The EST 2000 does not “loan out” any equipment.
- F. Units will ensure all soldiers bring LBE/LBV, kevlar helmet, protective mask (with inserts if needed).
- G. Using unit will supply any required equipment that is not readily available at the EST 2000 center. (i.e., .50 Cal and MK 19 Tripod and T&E Mechanism)
- H. Food/Drinks may be brought into and consumed in the Bldg 120 Break area. Units are responsible for clean-up.

SECTION V

5-1 SCHEDULING PROCEDURES:

- A. All units and agencies wanting to use the EST 2000 will first contact the Camp Roberts Operations Branch by phone or face-to-face, to request days for training. A request must then be submitted online utilizing RFMSS. Camp Roberts Operations Fax number is 805-238-8303. SGT Michael Rider can be contacted at PH: 805-238-8206 or DSN: 949-8206. As with local units, submit as soon as possible. The address for Camp Roberts Operations is:

Camp Roberts MTC
ATTN: SGT Michael Rider
HWY 101, BLDG 107
Camp Roberts, CA 93451-5000

- B. Online RFMSS requests must be submitted to Camp Roberts Operations at least 90 days prior to training. The EST 2000 is scheduled based on receipt of the request at Camp Roberts Operations. Priority of use is first come first served with mobilizing units having priority. Once your scheduling is confirmed, an approval letter will be faxed or e-mailed to you.
- C. Once a request has been submitted through RFMSS to utilize the EST 2000, the unit must setup an appointment for time to train the trainer for at least 2 hours. This time will be used to familiarize the unit trainer with how the simulator can be used to improve the units marksmanship. This will allow the I/O to concentrate on the operation of the simulator while the unit trainer is assisting their soldiers by recognizing where the fundamentals are breaking down and showing the soldier how to correct them. This training is a perishable ability so the training will be completed within 48 hours of scheduled use of the simulator.
- D. The EST 2000 is located in Bldg 120 located across from the GYM.
- E. CANCELLATIONS: In the event that a unit has to cancel training, Camp Roberts Operations will be notified in writing as soon as possible to allow other units to use the trainer.

SECTION VI

6-1 TRAINING MANAGEMENT:

- A. The Camp Roberts MTC Simulation Center is capable of training 110 personnel per day, and no more than 10 personnel at any given time. It takes approximately

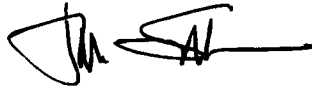
CACR-DPTMS

SUBJECT: Engagement Skills Trainer 2000 (EST 2000) Standing Operating Procedures (SOP)

45 minutes to get soldiers qualified on the Zero Table, Night Qualification Table, and the NBC Table. Units training on the EST 2000 are encouraged to have concurrent training available.

- B. The incoming unit will sign a hand receipt for all equipment used for the training day on the EST 2000 and mini-rets systems.
- C. A risk assessment must also be submitted to CR Operations and Range Control after RFMSS request is approved.

6-2 POC for the above is SGT Rider (805) 238-8206 or e-mail Michael.Rider1@us.army.mil.



JOHN F. SMITH
COL, FA
COMMANDING